

CA-NV AWWA Water Loss Technical Assistance Program Wave 4 Water Audit Level 1 Validation Document

Audit Information:

Utility: Irvine Ranch Water District PWS ID: 3010092

System Type: Potable Audit Period: Fiscal Year 2016/17

Utility Representation: Amy McNulty, Allan Pascual, Dave, Tina, Rory, Ken, Terry

Validation Date: 7/19/2017 Call Time: 9:00am Sufficient Supporting Documents Provided: Yes

Validation Findings & Confirmation Statement:

Key Audit Metrics:

Data Validity Score: 76 Data Validity Band (Level): Band IV (71-90)

ILI: 1.03 Real Loss: 20.77 (gal/conn/day) Apparent Loss: 6.84 (gal/conn/day)

Non-revenue water as percent of cost of operating system: 17.1

Certification Statement by Validator:

This water loss audit report has been Level 1 validated per the requirements of California Code of Regulations Title 23, Division 2, Chapter 7 and the California Water Code Section 10608.34.

All recommendations on volume derivation and Data Validity Grades were incorporated into the water audit. ☒

Validator Information:

Water Audit Validator: Will Jernigan Validator Qualifications: Contractor for CA-NV AWWA Water Loss TAP

Validator Provided



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Water System Name: Irvine Ranch Water District

Water System ID Number: CA3010092

Water Audit Period: Fiscal Year 2016/17

Water Audit & Water Loss Improvement Steps:

Steps taken in preceding year to increase data validity, reduce real loss and apparent loss as informed by the annual validated water audit:

- Subtracted well wastewater from production totals to avoid over estimating the Volume from Own Sources
- Pro-rated Raw Billing data to calculate Billed Metered Authorized Consumption, instead of relying on unadjusted summary data.
- Determined Unbilled Unmetered Authorized Consumption using itemized recorded of operational use.
- Incorporated the change in stored volume in determining Water Supplied.

Certification Statement by Utility Executive:

This water loss audit report meets the requirements of California Code of Regulations Title 23, Division 2, Chapter 7 and the California Water Code Section 10608.34 and has been prepared in accordance with the method adopted by the American Water Works Association, as contained in their manual, *Water Audits and Loss Control Programs, Manual M36, Fourth Edition* and in the Free Water Audit Software version 5.

Executive Name (Print)

PAUL COOK

Executive Position

GENERAL MANAGER

Signature

[Handwritten Signature]

Date

7/27/14

Utility Provided